

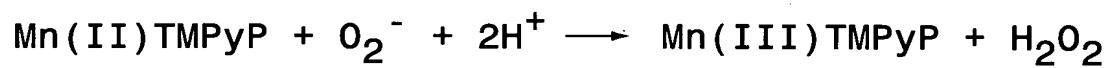
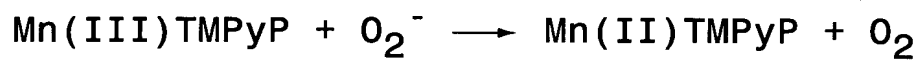
APPROVED	O.G. FIG.	
BY	CLASS	SUBCLASS
DRAFTSMAN		DEC 30 2002

PATENT & TRADEMARK OFFICE

Inventor: FRIDOVICH et al  
 SN 09/880,125/Sheet 1 of 11  
 Atty. Dkt.: 1579-580

*Fig. 1*

# MECHANISM



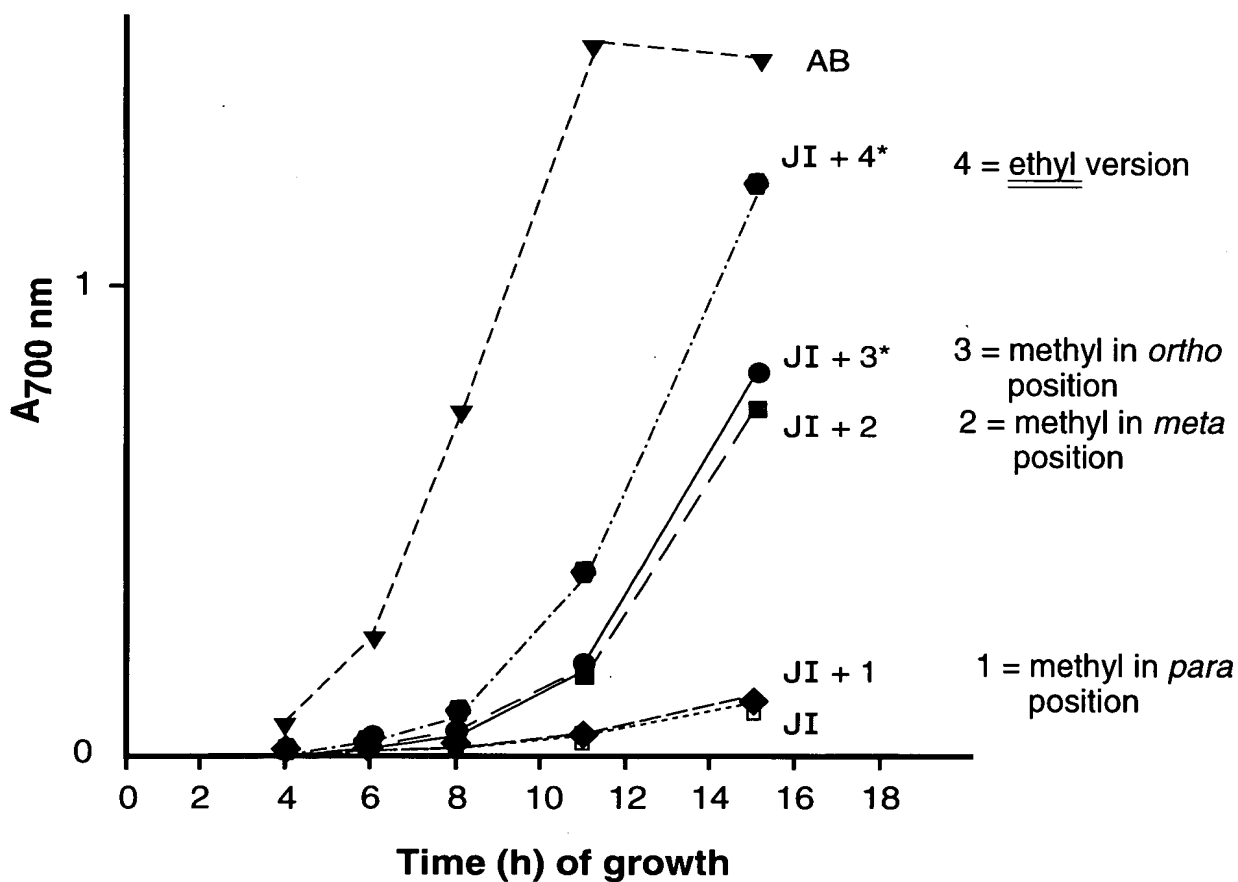


OIPV  
DEC 30 2002  
PATENT & TRADEMARK

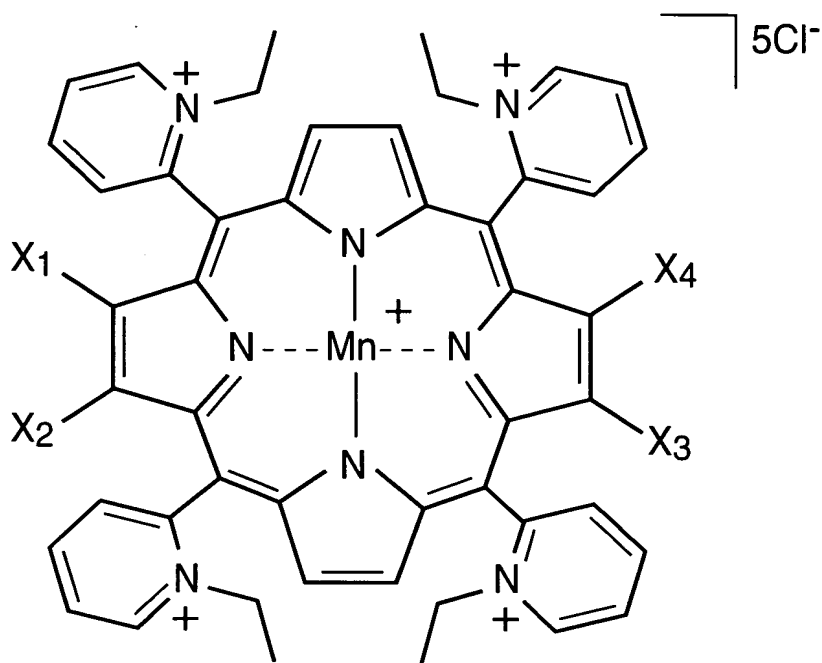
Inventor: FRIDOVICH et al  
SN 09/880,125/Sheet 3 of 11  
Atty. Dkt.: 1579-580

*Fig. 3*

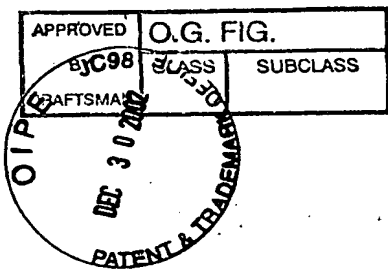
SOD activity in vivo (*E. coli*) of 1, 2, 3\* and 4\* (25  $\mu$ M) in minimal medium (\*mixture of atropisomers, JI = SODs deficient strain, AB = parental strain).



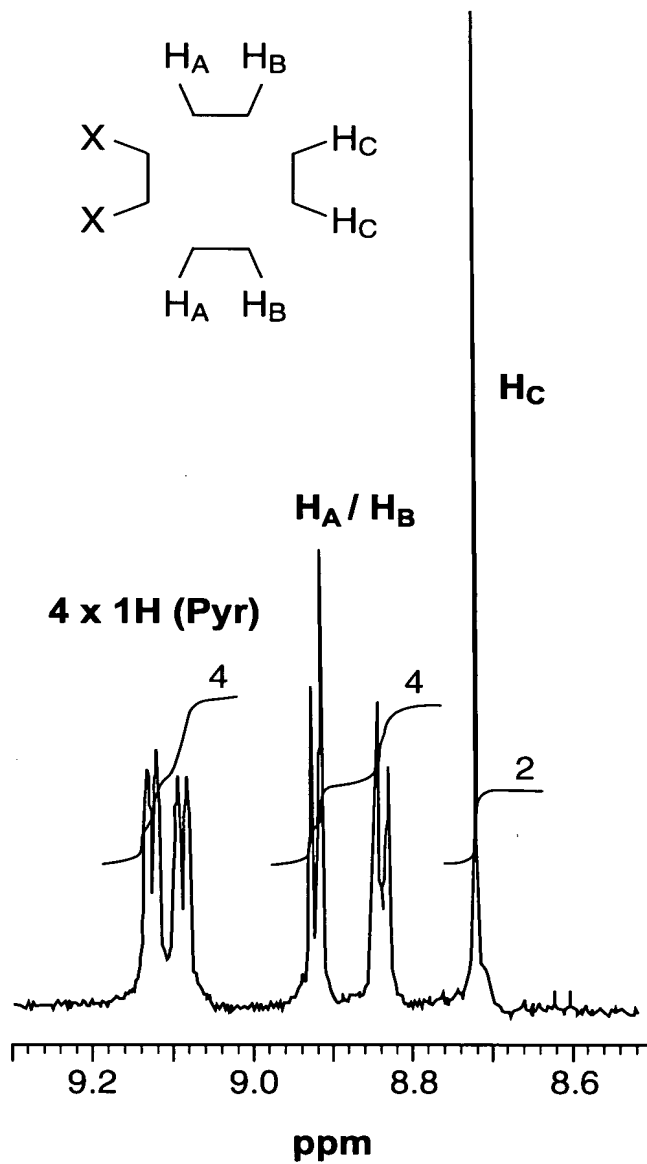
*Fig. 4*



MnTE-2-PyP <sup>5+</sup>	X <sub>1</sub> = X <sub>2</sub> = X <sub>3</sub> = X <sub>4</sub> = H
MnCl <sub>1</sub> TE-2-PyP <sup>5+</sup>	X <sub>1</sub> = Cl, X <sub>2</sub> = X <sub>3</sub> = X <sub>4</sub> = H
MnCl <sub>2a</sub> TE-2-PyP <sup>5+</sup>	X <sub>1</sub> = X <sub>2</sub> = Cl, X <sub>3</sub> = X <sub>4</sub> = H
MnCl <sub>3</sub> TE-2-PyP <sup>5+</sup>	X <sub>1</sub> = X <sub>2</sub> = X <sub>3</sub> = Cl, X <sub>4</sub> = H
MnCl <sub>4</sub> TE-2-PyP <sup>5+</sup>	X <sub>1</sub> = X <sub>2</sub> = X <sub>3</sub> = X <sub>4</sub> = Cl



Inventor: FRIDOVICH et al  
SN 09/880,125/Sheet 5 of 11  
Atty. Dkt.: 1579-580



*Fig. 5*

Inventor: FRIDOVICH et al  
 SN 09/880,125/Sheet 6 of 11  
 Atty. Dkt.: 1579-580

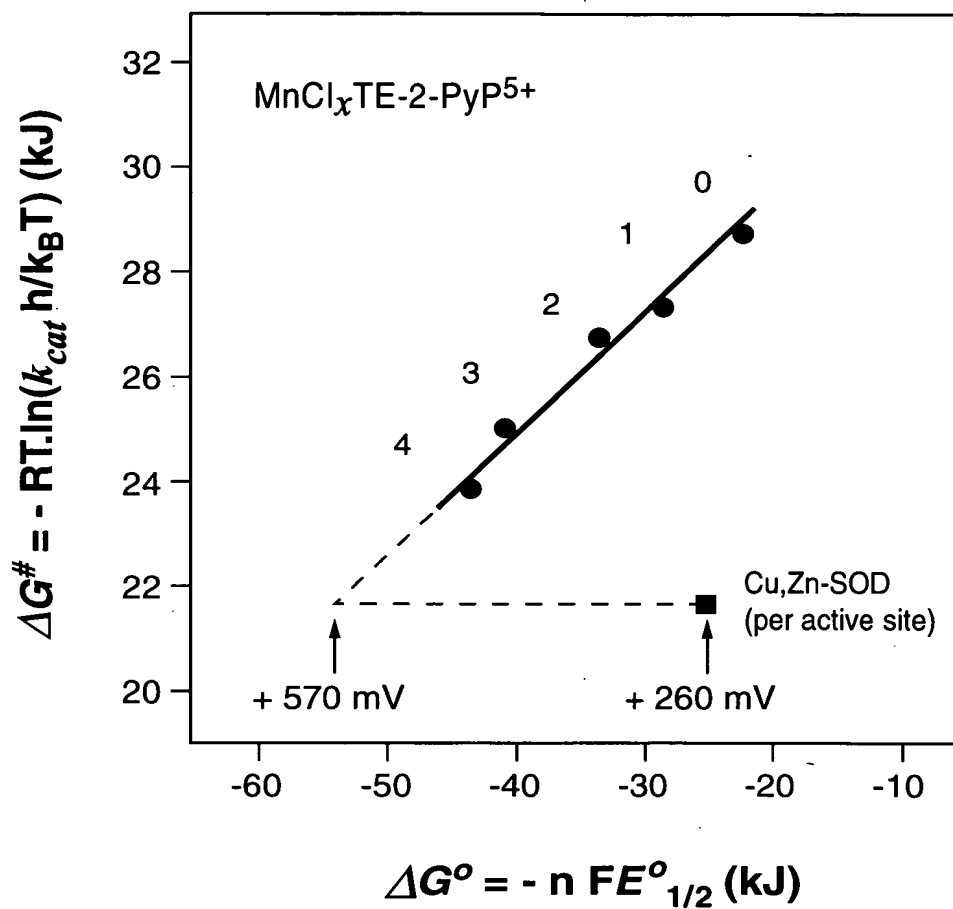
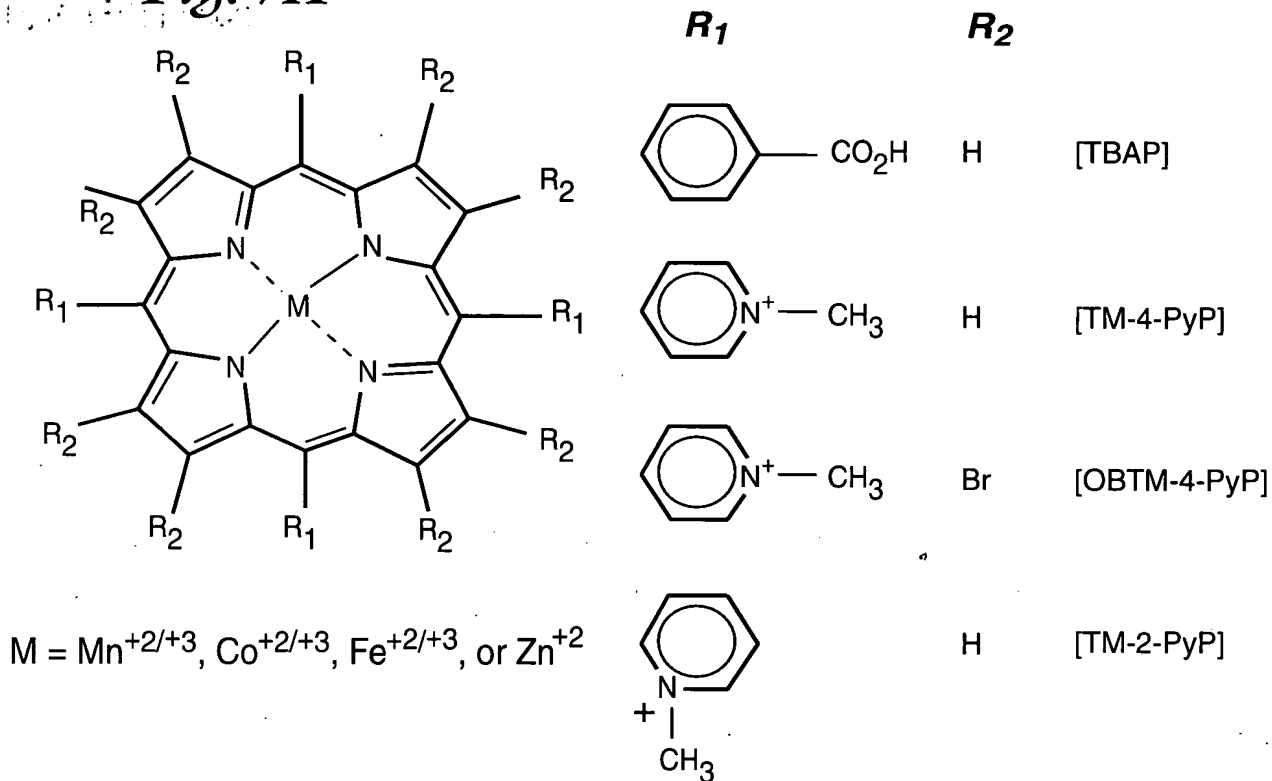


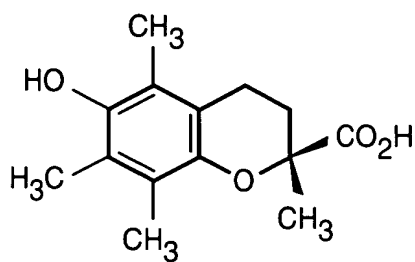
Fig. 6

**Fig. 7A**



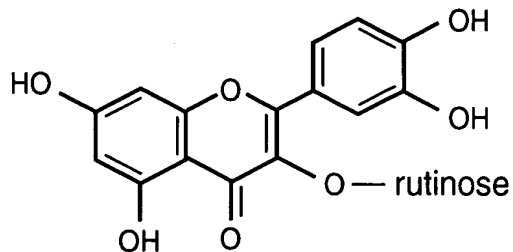
**Metalloporphyrins**

**Fig. 7B**



**Trolox**

**Fig. 7C**



**(+)-Rutin**

APPROVED	O.G. FIG.	
BY C98	CLASS	SUBCLASS
CRAFTSMAN		

DEC 30 2002

OIP

PATENT & TRADEMARK

Inventor: FRIDOVICH et al  
SN 09/880,125/Sheet 8 of 11  
Atty. Dkt.: 1579-580

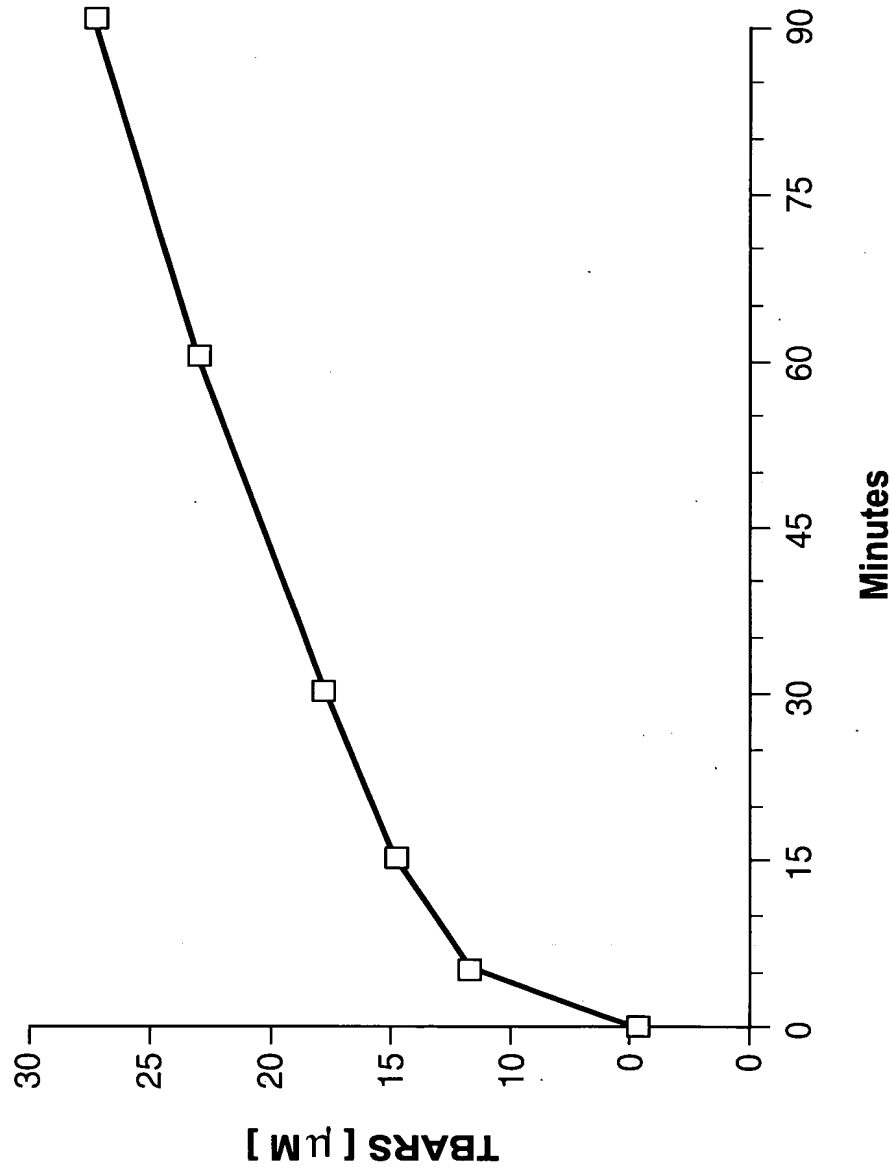


Fig. 8



Inventor: FRIDOVICH et al  
 SN 09/880,125/Sheet 9 of 11  
 Atty. Dkt.: 1579-580

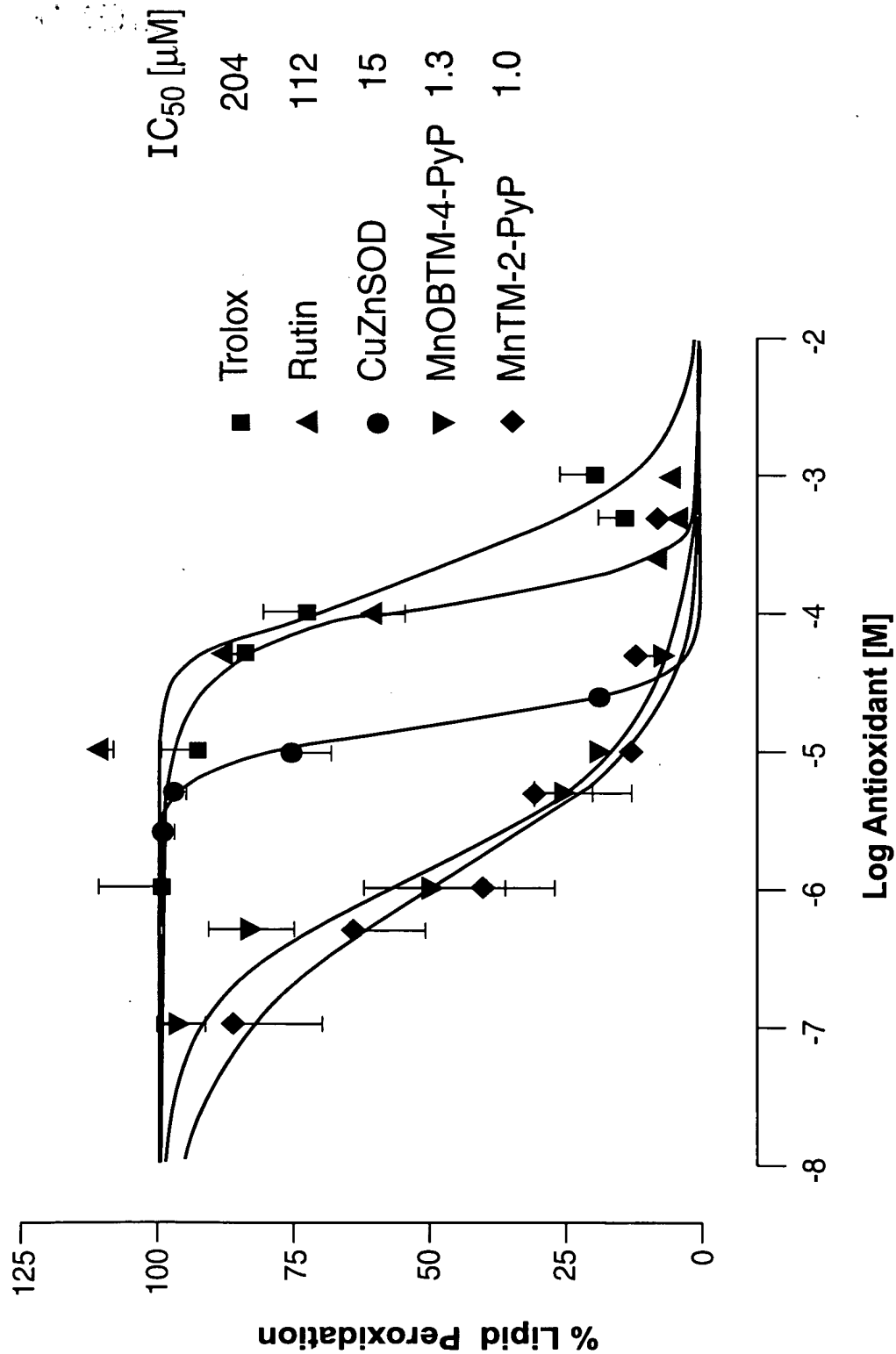
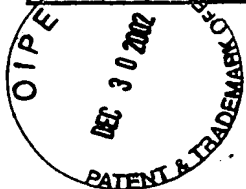


Fig. 9



Inventor: FRIDOVICH et al  
 SN 09/880,125/Sheet 10 of 11  
 Atty. Dkt.: 1579-580

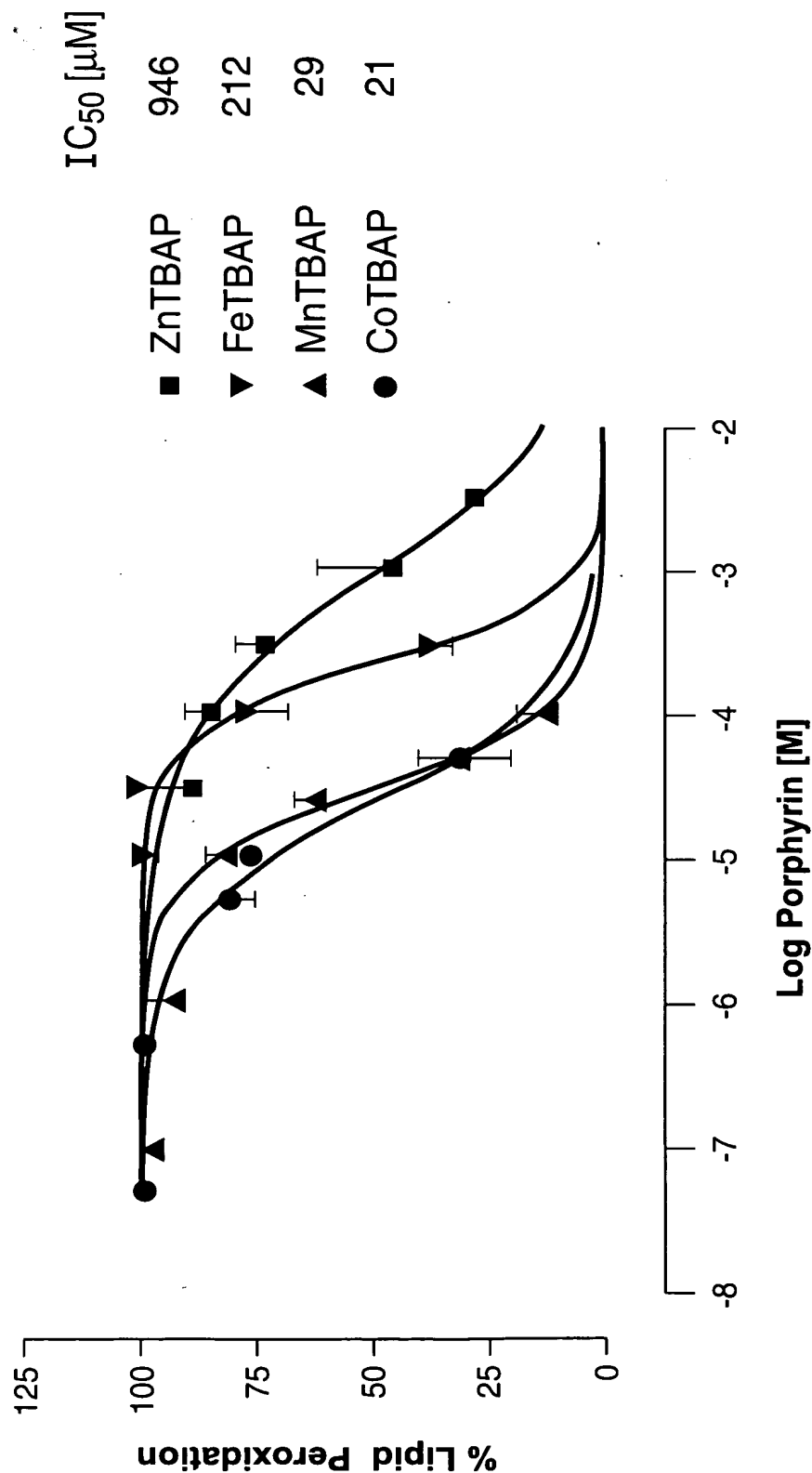


Fig. 10

Inventor: FRIDOVICH et al  
 SN 09/880,125/Sheet 11 of 11  
 Atty. Dkt.: 1579-580

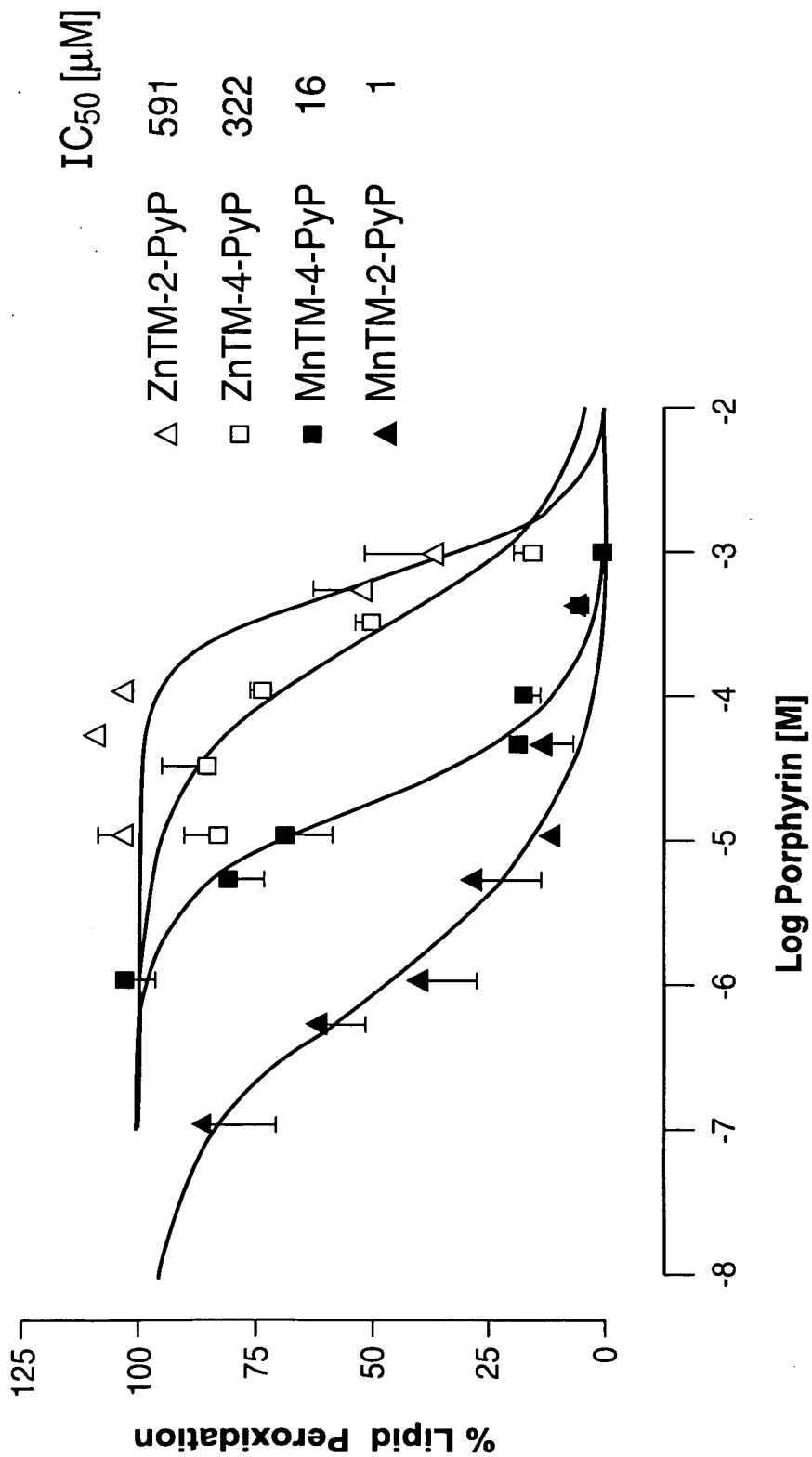


Fig. 11